

Fig. 1

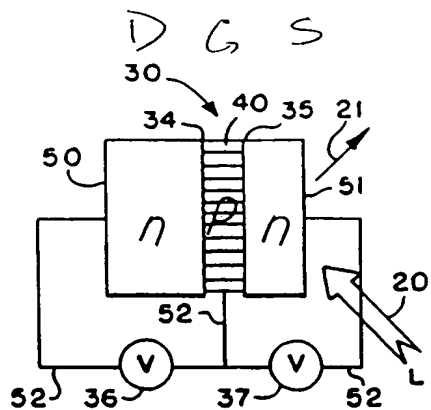


Fig. 2

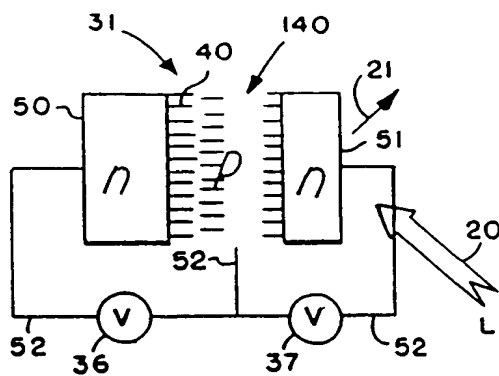


Fig. 3

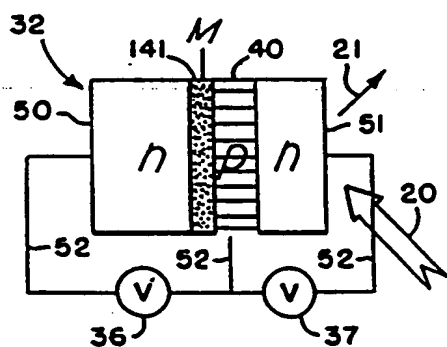


Fig. 4

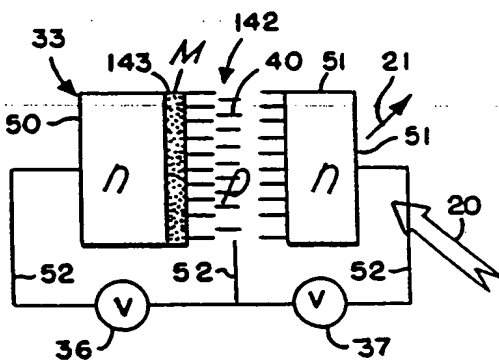


Fig. 5

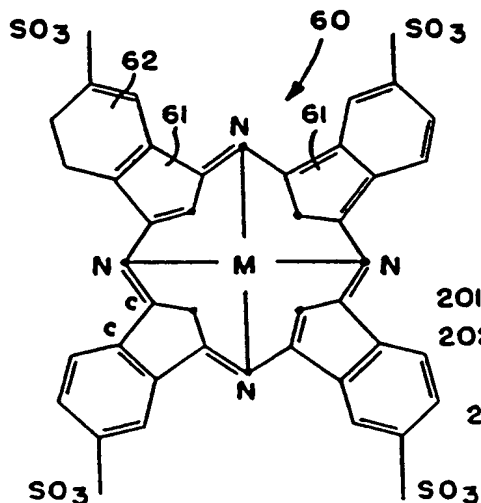


Fig. 6

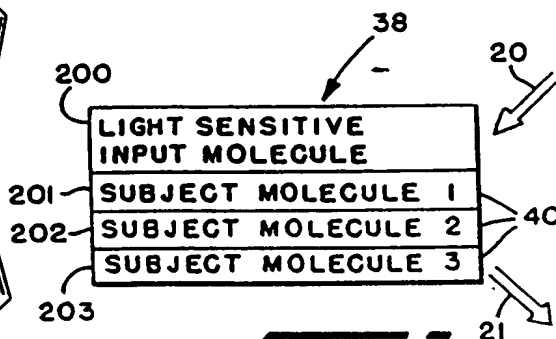


Fig. 7

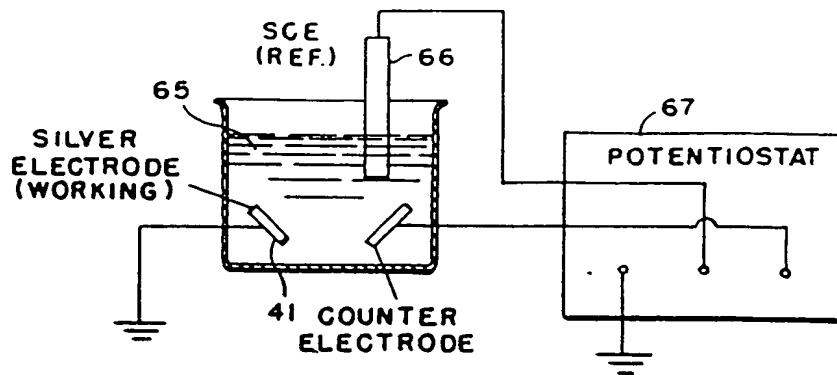


Fig. 8

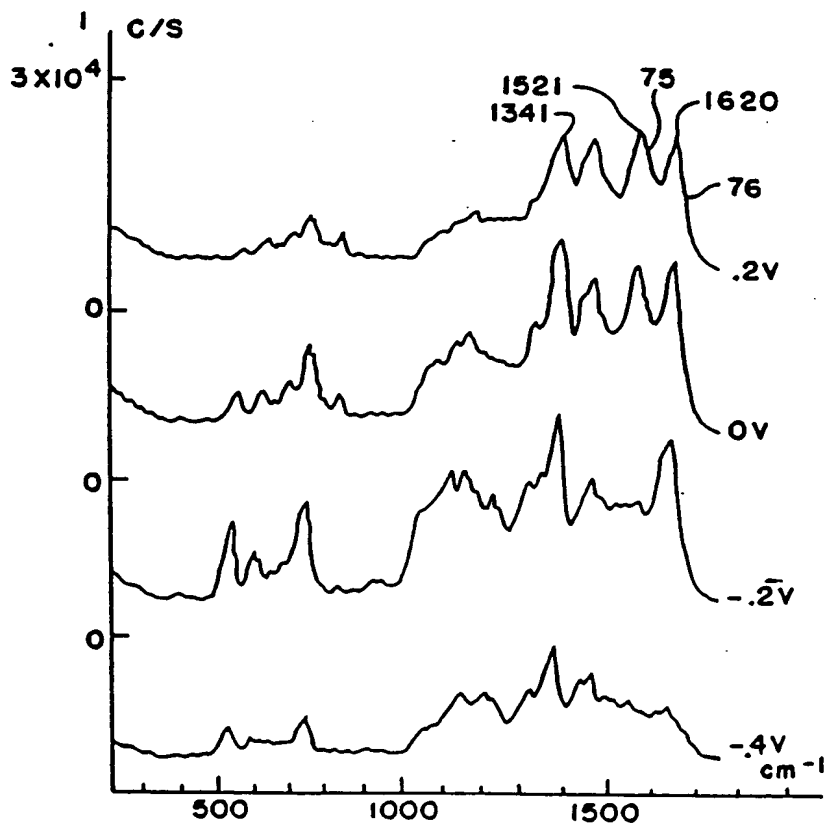


Fig. 9

10014659-124104

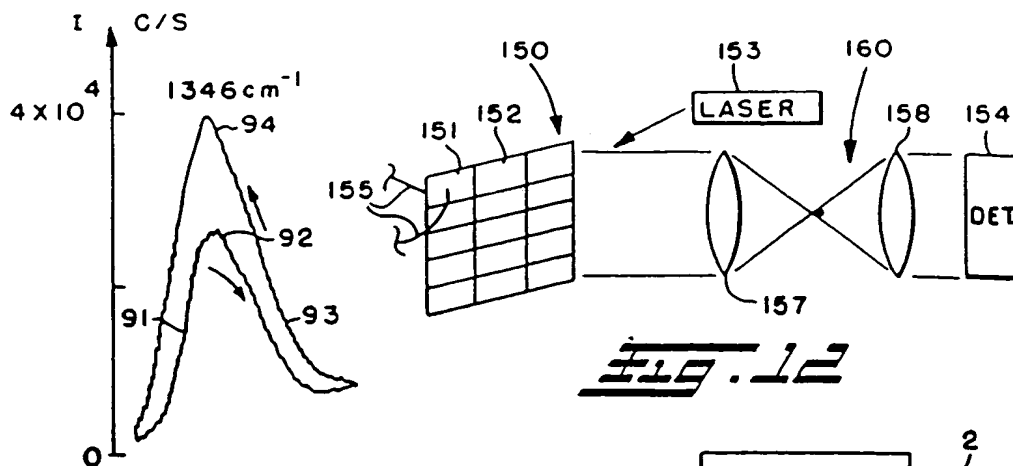


Fig. 10a

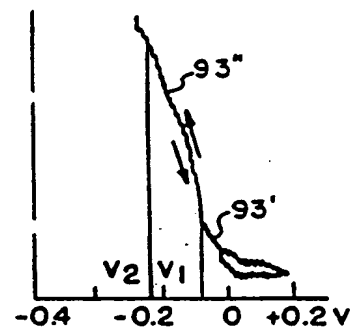


Fig. 10b

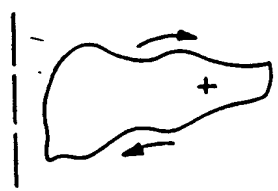


Fig. 10c

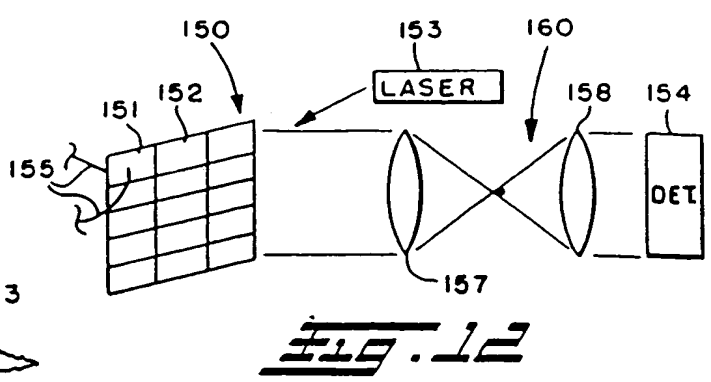


Fig. 11

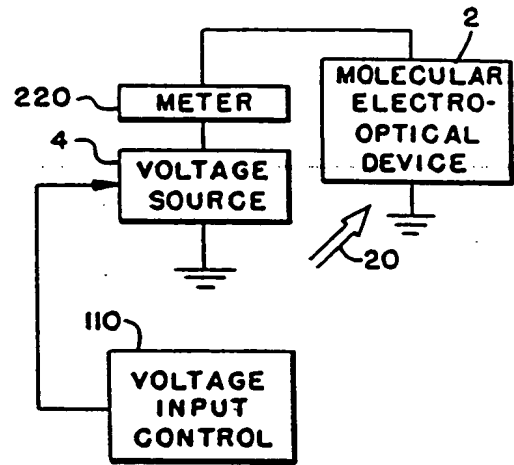


Fig. 13

10014659 121104

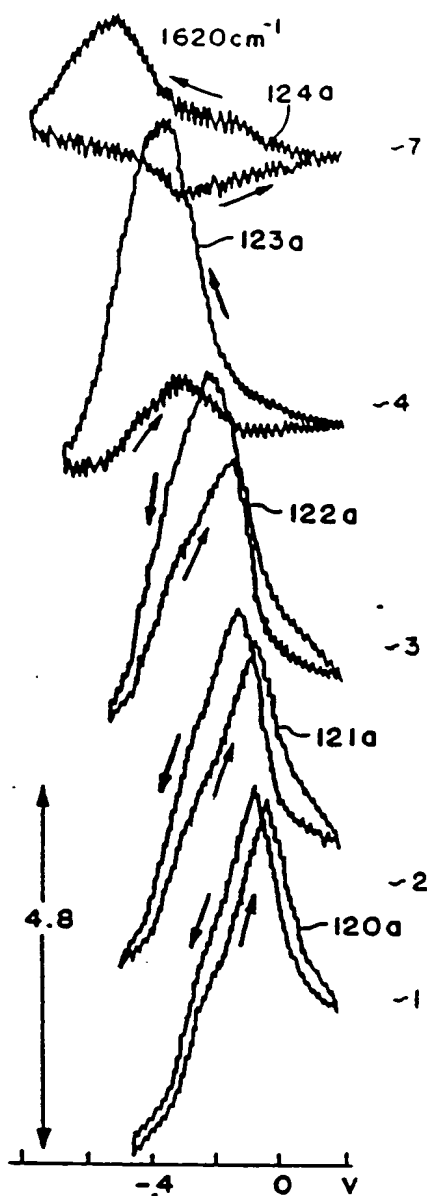


Fig. 11a

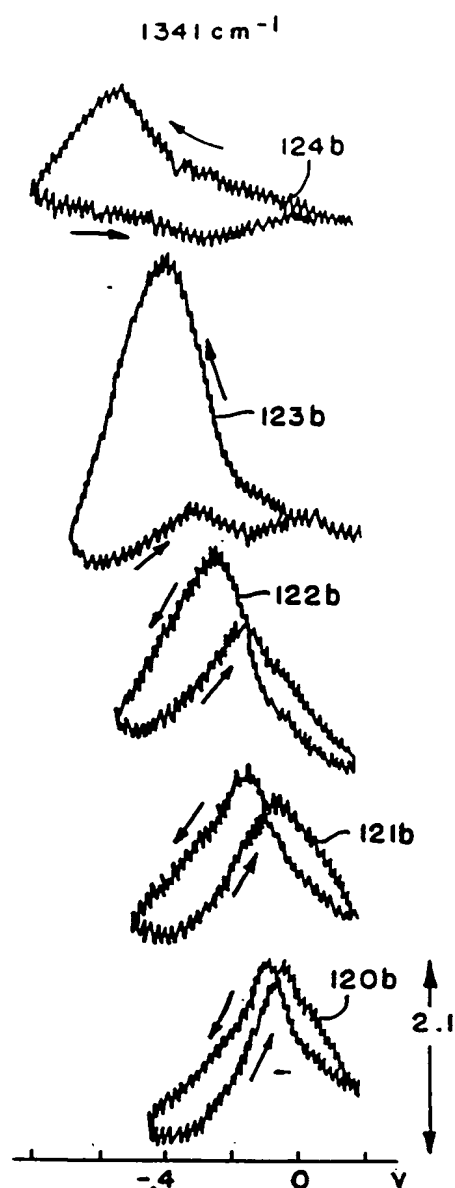


Fig. 11b

10014659-121101

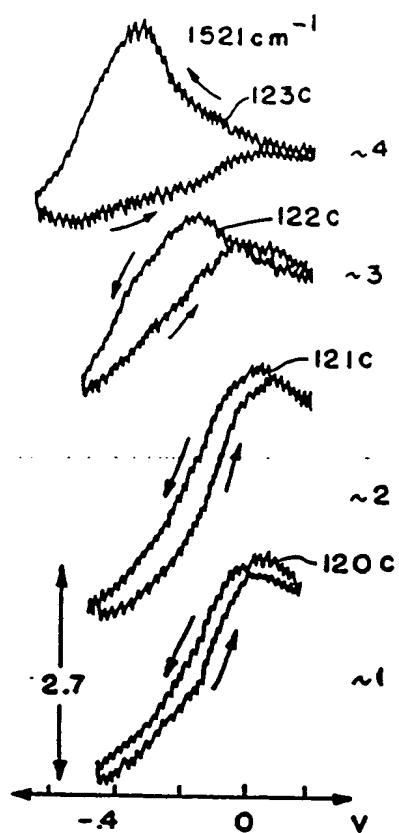


Fig. 11c

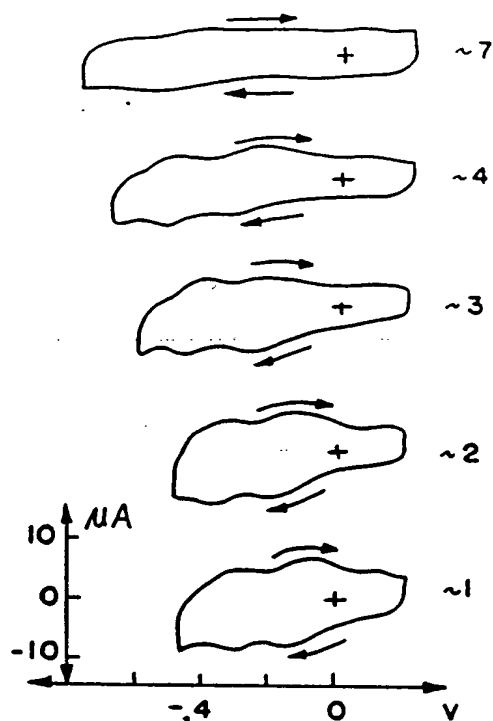


Fig. 11d

10014659 121101

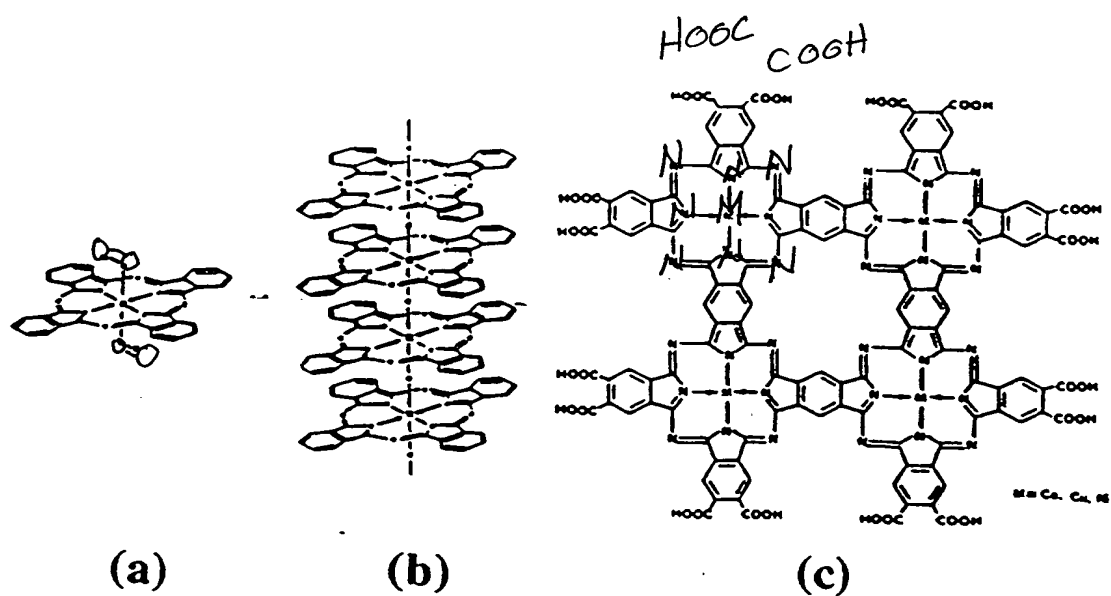
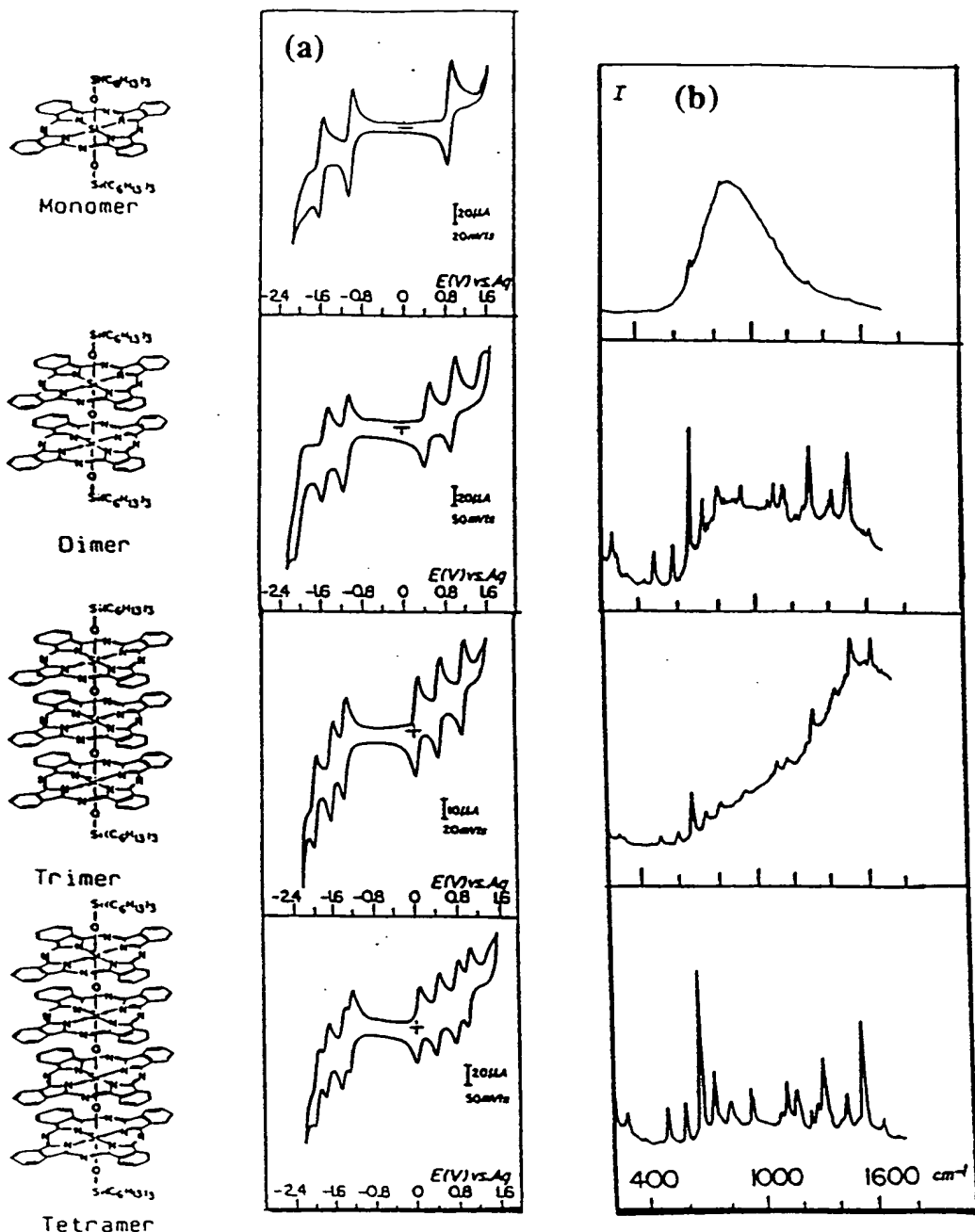


FIG. 14

Schematic representation of different phthalocyanine structures. (a) Monomer, (b) ring stacked and (c) polymer sheet.

FIG. 15



Electro-optical properties of oxygen bridged $(O-Si-Pc)_n$ for $n=1, 2, 3$ and 4 . (Middle) Cyclic voltammograms obtained from $10^{-3} M$ $(O-Si-Pc)_n$ in $0.1 M$ tetra-*n*-butylammonium perchlorate in CH_2Cl_2 adsorbed on a platinum electrode and (Right) depolarized resonant surface-enhanced Raman spectra obtained from $(O-Si-Pc)_n$ adsorbed on a silver electrode at 0 V versus SCE. Laser excitation at 632.8 nm and 20 mW output power. The electrolyte is $0.05 M$ Na_2SO_4 saturated with argon gas.

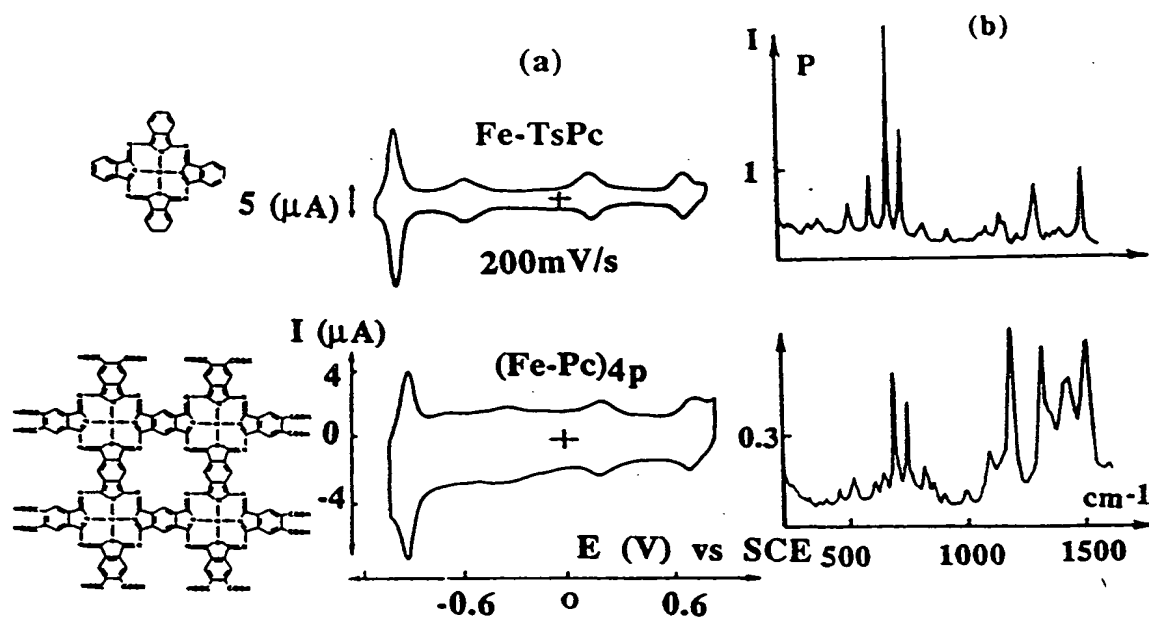


FIG. 16

Electro-optical properties of Fe-TsPc monomer and polymeric sheet (Fe-Pc)_{4p}: (a) Cyclic voltammograms; (b) surface-enhanced resonant Raman spectra. Laser excitation at 632.8 nm with 20 mW output power.

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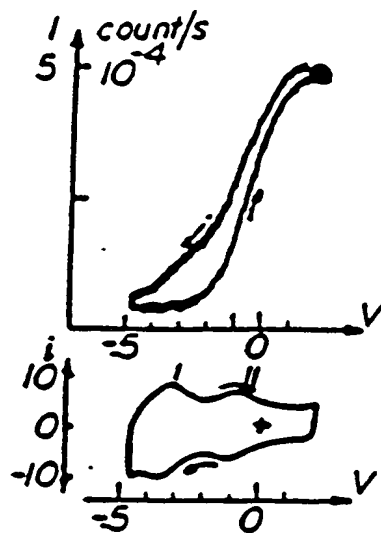


FIG. 17

A curve representing the pulse code firing rate of a neuron obtained from Fe-TsPc adsorbed on a silver electrode.

